

# Curriculum Vitae



## Personal Information

**Name:** Heba El-Bagoury

**Date of Birth:** 6 August 1983

**Current Position:** Assistant Professor of Geomorphology, Remote Sensing, and Geographic Information Systems

Department of Geography, Faculty of Arts – Port Said University

**Certified Trainer and Training Package Designer**

**General Specialization:** Physical Geography

**Specific Specialization:** Geomorphology, Remote Sensing, and Geographic Information Systems (GIS)

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## Academic Positions

- **Postgraduate Scholarship Member (Master’s Degree), Department of Geography – Faculty of Arts, Mansoura University, from May 31, 2006 to March 19, 2012.**
- GIS Specialist, National Authority for Remote Sensing and Space Sciences (NARSS), from April 16, 2014 to October 22, 2017.
- Assistant Lecturer, Department of Geography and Geographic Information Systems – Faculty of Arts, Port Said University, from October 23, 2017 to September 25, 2018.  
(Seniority date: March 26, 2013)
- Lecturer of Geomorphology and Remote Sensing, Department of Geography and Geographic Information Systems – Faculty of Arts, Port Said University, from September 25, 2018 to June, 2025.
- Assistant Professor of Geomorphology, Remote Sensing, and Geographic Information Systems, Department of Geography and Geographic Information Systems – Faculty of Arts, Port Said University, from June, 2025 to Present.

## Academic Qualifications

- **Bachelor of Arts in Geography (Cartography and Surveying Division), Mansoura University – May 2004.**
- Pre-Master's Diploma in Geography and Geographic Information Systems (Cartography and Surveying Division), Faculty of Arts – Alexandria University, 2005.
- **Master of Arts in Geography – Faculty of Arts, Mansoura University, 2011.**  
*Thesis Title: “Geomorphology of Alluvial Fans on the Western Coast of the Red Sea between Gebel El-Zeit and Ras Gharib Using Remote Sensing and Geographic Information Systems.”*  
*Grade: Excellent*  
*Remarks: The thesis was recommended for exchange with foreign universities and for publication at the university’s expense.*
- **Doctor of Philosophy (Ph.D.) in Geography – Faculty of Arts, Mansoura University, 2018.**  
*Thesis Title: “Geomorphological Changes and Their Hazards between Nag Hammadi and Sohag Using Multispectral and Hyperspectral Satellite Imagery.”*  
*Grade: First-Class Honors*  
*Remarks: The dissertation was recommended for exchange with foreign universities and for publication at the university’s expense.*

## Training Courses and Specialized Workshops

- **Courses and Workshops in Remote Sensing and Geographic Information Systems (GIS)**
- **Geographic Information Systems (GIS) Course – British University in Egypt (2010)**  
*ArcGIS including Geodatabase Design, Advanced Level*

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- **GIS Training Program – The American University in Cairo (AUC), held at the Arab Academy for Science, Technology and Maritime Transport, Alexandria Branch (2006–2007)**

Arc Map- Arc Hydrology –Map Info –Auto Disk Map- Geodatabase

- Remote Sensing Course – British University in Egypt, 2010

(Remote Sensing software Advanced Level In Satellite Image Processing)

- **Remote Sensing Course (ERDAS Imagine) – Faculty of Arts, Ain Shams University, 2007**

- Image processing Using Envi 5.0 software” National Authority for Remote Sensing and Space Sciences From 14 to 17 / 9 / 2014

- Fundamentals of Remote Sensing (RS1) (C) National Authority for Remote Sensing and Space Sciencesfrom 17 – 21 August, 2014

- Fundamentals of Geological mapping and structural studies National Authority for Remote Sensing and Space Sciences from 31–8 to 4- 9 2014

- Advanced Geographic Information Systems (GIS2) National Authority for Remote Sensing and Space Sciencesfrom 26–30-october 2014

- Geology of Egypt National Authority for Remote Sensing and Space Sciencesfrom 21 / 9 to 1/10, 2014

- Radar Polarimetry National Authority for Remote Sensing and Space Sciences from 7 – 11 December, 2014

- Building Geodatabases (GIS 4) National Authority for Remote Sensing and Space Sciencesfrom 12 – 16 April, 2015

- Cartography and Mapping (GIS 5) National Authority for Remote Sensing and Space Sciencesfrom 3 – 7 May, 2015

- Has attended a Workshop on "The Importance of Environmental Sustainability to Achieve Sustainable Development Goals - SDGs" on 13th January 2020

- Has attended a Workshop on "Modern Trends of Agricultural Development in order to Support Decision-making in light of the country's 2030 pla on 17th February 2020

- **Workshop on Advanced Remote Sensing Technologies** – Regional Center for Space Science and Technology Education (RCSSTE), Tuesday, January 5, 2021

- **Workshop on "Using Radar Data in Monitoring Oil Pollution"** – National Authority for Remote Sensing and Space Sciences (NARSS), Monday–Tuesday, January 18–19, 2021

- **GEO-INFORMATICS FROM A TECHNICAL SPECIALTY TO A DIGITAL EARTH FRAMEWORK**

,Galala UniversityOrganizos, 3,marth, 2021

- Explanation and Practical Applications of the SPSS Program in the Statistical Analysis of Data Part 3: Practical Applications, National Research Centre, Cairo, Egypt Wednesday 18th August, 2021
- GeoHECRAS Training Session Organized by College of Engineering, Mustansiriyah University and CivilGEO, USA on 10/9/2021

## **Seminars and Workshops in Physical Geography**

- **Attended the Seminar on “Wetlands” in Celebration of World Wetlands Day** – Institute of Environmental Studies and Research, Ain Shams University, February 11, 2021
- **Workshop on “Climate Change and Early Warning Systems”** – Egyptian Meteorological Authority, March 30–31, 2022
- for attending the lecture of <<< Climate change and carbon footprint, Environment ambassador Evcop,2022/8/8
- **Workshop on “Using Geographic Information Systems (GIS) to Build an Environmental Risk Simulation Model”** – Environmental and Climate Change Forum, August 15, 2021
- **Attended the 2022 Cultural Season titled “Impacts of Climate Change on Society”** – Egyptian Meteorological Authority
- **Participant in the Simulation Model of the COP27 Climate Change Conference**, within the framework of the "Towards the New Republic" Initiative, under the “Y-LEAD – Our Role” Program, organized by Watan Development Association – Project TUN
- Fundamentals of Geographic Information Systems (GIS1) National Authority for Remote Sensing and Space Sciences from 04–08-April 2014.

## **Courses and Workshops on Scientific Research and International Publishing**

- Research Funding, Egyptian Knowledge Bank, 8/10/2020
- attending hands-on training webinar on Web of Science, Egyptian Knowledge Bank, on January 12th, 2021.
- Introduction to Engineering Solutions : Analyze Trends ; Plan your research for Success & build Knowledge in the classroom at Egyptian Knowledge Bank,on Tuesday 21 July, 2020
- Discover with Elsevier: Getting Published (2 hours)at Egyptian Knowledge Bank,on Sunday 26 July, 2020

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- Overview of SciVal and New Promotions Criteria at National Authority For Remote Sensing & Space Sciences, on Tuesday 04 February, 2020
  - Introduction to Knovel & Elsevier's Essential Engineering solutions to build Knowledge and Technology foundation at Faculty Of Engineering , Port Said university, on Monday 22 June, 2020
  - Supporting Geological Research and Education using Geofacets at Egyptian Knowledge Bank, on Monday 20 July, 2020
  - "Scientific Publishing in the International Journals (Practical Applications), Academics & Researchers Platforms (IFAD), On 24 January, 2021
  - "How to Write a Scientific Research Proposal?" Academics & Researchers Platforms (IFAD) On 2 February, 2021
  - "Scientific Publishing Strategies in the International Journals "Academics & Researchers Platforms (IFAD), On 13 March, 2021
  - How to Easily Navigate Through Springer Nature Platform in collaboration with Egyptian Knowledge Bank, SPRINGER NATURE, Aug 30, 2021
  - For attending hands-on training webinar on Web of Science on January 12th, 2021, Clarivate Web of Science™
  - Comment trouver les articles pertinents pour mon projet de recherche (90 min)
  - at Afrique du Nord, Elsevier, on Saturday 21 August, 2021
  - Supporting Geological Research and Education using Geofacets at Egyptian Knowledge Bank, on Monday 20 July, 2020
  - How do we ensure the acceptance of publication in an international scientific journal? Academics & Researchers Platforms (IFAD) On 15 September 2021

## Academic Publications

- "Geomorphology of the Wadi Billi Alluvial Fan on the Western Coast of the Red Sea Using Remote Sensing and GIS", Journal of Humanistic and Literary Studies – Faculty of Arts, Mansoura University, 2011.
- Presentation titled "Human Impact and Its Relationship to Contemporary Environmental Changes in Lake Manzala", Supreme Council of Culture, 2013.
- "Changes in the Morphological Characteristics and Resulting Hazards of the Nile River Channel Between Nag Hammadi and Sohag Using Remote Sensing and GIS", Journal of Humanistic and Literary Studies – Faculty

of Arts, Kafr El-Sheikh University, 2017.

- **Discrimination of Neoproterozoic granitic-phases in Southern-Sinai, Egypt. Remote sensing, petrography and geochemistry.** The Egyptian Journal of Remote Sensing and Space Science, Volume 24, Issue 2, August 2021, Pages 231-246 <https://doi.org/10.1016/j.ejrs.2021.02.002>
- **Integrated Hydrological Modeling for Watershed Analysis, Flood Prediction, and Mitigation Using Meteorological and Morphometric Data, SCS-CN, HEC-HMS/RAS, and QGIS. Water, Water 2024, 16 (2), 356; <https://doi.org/10.3390/w16020356> -21 Jan 2024**
- **Geo-Environmental Risk Assessment of Sand Dunes Encroachment Hazards in Arid Lands Using Machine Learning Techniques. Sustainability 2024, 16(24), 11139; <https://doi.org/10.3390/su162411139>**
- **, Optimizing Site Selection for Construction: Integrating GIS Modeling, Geophysical, Geotechnical, and Geomorphological Data Using the Analytic Hierarchy Proces. ISPRS International Journal of Geo-Information ,ISPRS Int. J. Geo-Inf. 2025,14(1), 3 ; <https://doi.org/10.3390/ijgi14010003>**
- **GIS-based modeling and analytical approaches for groundwater quality suitability for different purposes in the Egyptian Nile Valley, a case study in Wadi Qena, Frontiers in Water, 10 February 2025 0, Volume 7 - 2025 <https://doi.org/10.3389/frwa.2025.1502169>**
- **Potentiality Delineation of Groundwater Recharge in Arid Regions Using Multi-Criteria Analysis. Water, Volume 17- 2025 February 2025 <https://doi.org/10.3390/w170405-Feb 2025>**
- **Comparative geospatial and statistical analysis of DEM-derived geomorphic indices from multiple datasets for assessing relative active tectonics, Geomatics, Natural Hazards and Risk, May 2025, 16(1) <http://dx.doi.org/10.1080/19475705.2025.2500992>**
- **International Summer School:“Sustainable Coastal Planning in Mediterranean Basin: Geographical Approaches and Methodologies”Organizer: University of Naples Federico II, Italy, in cooperation with the International Geographical Union (IGU)Naples, June 9–11, 2025, Funded by the European Union – NextGenerationEU program**

## **Memberships in Scientific Societies**

- Member of the Egyptian Geographical Society since 2005
- Member of the Egyptian Geomorphological Group affiliated with the International Geographical Union (IGU) since 2005
- Member of the Egyptian Society for Environmental Changes, June 2020
- **Member of the IAG – International Association of Geomorphologists, March 2025**